

Updates on the National Public Safety Broadband Network

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Public Safety Interoperable
Communications Office

Outline



- National Public Safety Broadband Network (NPSBN) Status
 - FirstNet Board selection
 - Review current National Public Safety Broadband Network (NPSBN) guidance for the State and Local Implementation Grant Program (SLIGP)
 - » Review the Digital Arizona Program approach
 - » Proposed Education and Outreach approach for AZPSBN
 - FirstNet's Inaugural meeting and NTIA's Notice of Inquiry
- Arizona Public Safety Broadband Network (AZPSBN) Status
 - Additional AZPSBN status topics
 - Plan and timeline

NTIA/FirstNet Plan



- FirstNet Board selected: Four Public Safety representatives appointed - the legislation required a minimum of three
- NTIA posted preliminary grant guidance with a hint at the allowable activities and required tasks (target - Q1 2013):
 - Establish or adjust governance structure
 - Develop procedures to assure local and tribal representation
 - Create education and outreach process and delivery
 - Identify potential public safety users
 - Develop standard MOUs/IGAs for possible shared infrastructure, rights-of-way and other legal/permitting issues
 - Develop staffing plans for planning, outreach and data collection
- Two Phases: 1) Prep work and outreach 2) Data collection once FirstNet develops a standardized approach for each State to follow

Connecting the Dots



- From a NPSBN perspective, neither the \$134M for R&D nor the \$7B for build out appear to be enough to cover our required level of analysis and coverage.
- Arizona has multiple upcoming initiatives which require a solid fiber backhaul network able to cover as much of Arizona as possible (Health, Education, Government and Public Safety)
- All require education and outreach programs
- Each discipline has a message to get across to Local jurisdictions
- Local jurisdictions would benefit when all interested parties hear the same message

Digital Arizona Program



- AZ Broadband Backhaul approach
 - Two-highways bill - S.B. 1402
 - Digital Arizona has worked with AZ State Land to generate a [proposed statewide broadband conduit build out map](#).
 - Conduit Coverage: ~3000 miles of state and county roads, 40 mile swath, 98% of the population
 - Each segment has been identified and various population, anchor point, distance from tier 1 backhaul, critical infrastructure, metrics are being gathered for Return on Investment (ROI) valuation
 - The plan is to bury and lease conduit (providing reduced right of way, impact study & permit costs) and offer segments to private providers to build out in previously non-viable markets.
 - FirstNet could become one of those leasing conduit space

Planning for SLIGP



- Several of SLIGP grant guidance requirements depend on the development of a framework for gathering stakeholder input and data regarding the development of the AZPSBN:
 - Develop procedures to assure local and tribal representation
 - Create education and outreach process and delivery
 - Identify potential public safety users
 - Develop staffing plans for planning, outreach and data collection
- By using the Digital Arizona road segments as a framework for identifying the anchor institutions, jurisdictions, and potential stakeholders we can be assured a solid tracking mechanism. Map [available online](#).
- For example, SR260 (SR89A to SR87) – 47 miles:
 - COG = NACOG, REC = WCRCS, RAC = West, EMS = Northern
 - EM contact; SO contact; 9-1-1 contact; County contact; City contact;
 - Schools, Police Dept, Fire Dept, EMS services, Utilities, etc.
- This joint approach will allow for contact management, information sharing, survey tracking and possible user tracking.

Planning Approach



- Seek more information on projected costs and ways to overcome the projected shortfall
- Develop and administer surveys to assess local needs and possible shared assets
- In alignment with the “Two Highways” model of the Digital Arizona Project:
 - Identify each segment of the proposed fiber back haul
 - Identify the local stakeholders for Education, Health, Governmental and Public Safety along those routes
- Develop the metrics, cost-models and public/private partnership options for each segment

FirstNet's Inaugural meeting & the NTIA NOI



- FirstNet established two committees:
 - Public Safety Advisory – SAFECOM members
 - SLIGP – membership TBD
- Introduced two conceptual approaches for:
 - Conceptual network design
 - Application development
- NTIA/FirstNet has issued a Notice of Inquiry ([NOI](#)) requesting input on the two approaches
 - Arizona, via the AZPSBN Working Group, plans to respond either directly or through the PSST-OAC Operator Advisory Council (OAC) with the deadline being November 1, 2012.

AZPSBN Activity



- The PSIC Office is working on the National Public Safety Telecommunications Council (NPSTC) Public Safety Statement of Requirements (SoR) for the NPSBN – Final round of edits beginning Oct 12th
- Oct 3rd, PSIC staff were part of an NPSBN panel discussion aligned with the UTC Region 10 technical conference Oct 4-5th

AZPSBN Project Plan (1 of 2)



- Track NPSBN progress (on-going), in particular:
 - The Interoperability Board’s minimum technical requirements
 - FirstNet’s progress on RAN planning
 - Input/decisions from agencies such as the FCC, NTIA, DHS, OEC, etc.
- Work with the Digital Arizona project and 9-1-1 programs to assure integration and to identify synergies – on-going
- Work with the Arizona public safety community to advise the PSCC regarding statewide standards for interoperability on the NPSBN – in progress
- Develop and present education and outreach on AZPSBN for local jurisdictions – in progress

AZPSBN Project Plan (2 of 2)



- Advise the PSIC Office in regard to a grant request under the State and Local Implementation Grant Program (SLIGP) – planned
- Work with the Arizona public safety community to plan how Arizona will interact with the NPSBN and FirstNet – planned
- Plan and prepare for the FirstNet RFP proposal by recommending minimum criteria based on Arizona's public safety needs – planned
- Perform the research and analysis required to provide substantive input on the Opt-In/Opt-Out decision – planned
- Continually Report on progress – on-going

High Level Timeline Review



- March 22, 2012 – FCC’s interim Public Safety Interoperability Board formed - ✓
- April 17, 2012 – PSCC approved the AZPSBN Workgroup and project plan - ✓
- May 22, 2012 – FCC’s Interoperability Board published their requirements - ✓
- August 20, 2012 – NTIA to announce FirstNet Board members - ✓
- August 22, 2012 – NTIA to provide guidance for the SLIGP grant process - ✓
- Q1 2013 – NTIA to open SLIGP grant process
- Q2 2013 – Submit an Arizona SLIGP grant request to NTIA for the Arizona RAN
- Q3 2013 – Best guess estimate for SLIGP grant awards
- Q1 2014 – Review RAN analysis/costing results with the Governor’s Office
- Q4 2014 – Issuance of RFP to Arizona from FirstNet
- Once the RFP is provided, perform a comparative analysis and review with the Governor’s Office for the Opt-In/Opt Out decision (90-days after the receipt of the RFP)



Discussion; Questions?

Thank You!

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